

$$\langle expr \rangle ::= \langle term \rangle \langle sum_op \rangle \langle expr \rangle \mid \langle term \rangle$$

$$\langle term \rangle ::= \langle factor \rangle \langle mult_op \rangle \langle term \rangle \mid \langle factor \rangle$$

$$\langle factor \rangle ::= \langle base \rangle \text{'^'} \langle factor \rangle \mid \langle base \rangle$$

$$\langle base \rangle ::= \langle unary_op \rangle \langle base \rangle \mid \langle num \rangle \mid \langle id \rangle \mid \langle func \rangle \mid \text{'('} \langle expr \rangle \text{'}'}$$

$$\langle func \rangle ::= \langle id \rangle \text{'('} \langle expr \rangle \{ \text{' ,' } \langle expr \rangle \}^* \text{'}'}$$

$$\langle sum_op \rangle ::= \text{'+'} \mid \text{'-'} \quad \langle mult_op \rangle ::= \text{'*'} \mid \text{'/'}$$

$$\langle unary_op \rangle ::= \text{'+'} \mid \text{'-'} \quad \langle num \rangle ::= \langle int \rangle \mid \langle float \rangle$$

$$\langle int \rangle ::= \langle digit \rangle \mid \langle digit \rangle \langle int \rangle$$

$$\langle float \rangle ::= \langle int \rangle \text{'.'} \langle int \rangle$$

$$\langle id \rangle ::= \langle letter \rangle \{ \langle letter \rangle \mid \langle digit \rangle \}^*$$

$$\langle digit \rangle ::= \text{'0'} \mid \dots \mid \text{'9'}$$

$$\langle letter \rangle ::= \text{'a'} \mid \dots \mid \text{'z'} \mid \text{'A'} \mid \dots \mid \text{'Z'}$$